



HARBOUR RIGA  
Gales 2, Riga , Latvia  
Tel/fax +371 67346302, +371 67346313, e-mail: office@hbr.lv

A.ELKSNIS

Naval architect "HARBOUR RIGA "

## REPORT № HR-35-13

on thickness measurements

hull structures "VENTA "

Consisting of 25 sheets

Flag	Latvia	LATVIJAS JŪRAS ADMINISTRĀCIJA
Port of registry	VENTSPILS	SURVEYOR
Type	Pollution Control Vessel	A.TIRMANIS
IMO No	8847571	

RIGA , LATVIA

2013

**THICKNESS MEASUREMENT REPORT  
GENERAL PARTICULARS**

Ship's name:	<i>VENTA</i>		
IMO number:	<i>8847571</i>		
Class identity number:			
Port of registry:	<i>VENTSPILS</i>		
Gross tons:	<i>193</i>		
Deadweight:	<i>326</i>		
Date of build:	<i>1978</i>		
Classification society:			
Name of firm performing thickness measurement:	<i>HARBOUR RIGA</i>		
Thickness measurement firm certified by:	<i>LATVIJAS JŪRAS ADMINISTRĀCIJA</i>		
Approval No.:	<i>07.0246.06</i>		
Approval valid from	<i>2007-09-15 to 2012-09-15</i>		
Place of measurement:	<i>RIGA</i>		
First date of measurement:	<i>25.07.2013</i>		
Last date of measurement:	<i>25.07.2013</i>		
Special survey / intermediate / other survey due: —			
Details of measurement equipment:	<i>DM 4</i>		
Qualification of operators:	<i>UT- LEVEL 2.</i>		
Report Number:	<i>HR-35-13</i> Consisting of 13 Sheets.		
Name of operators:	<i>A.ELKSNIS</i>	Name of surveyor:	<i>A.TIRMANIS</i>
Signature of operators:		Signature of surveyor:	
Firm official stamp:		Classification Society	Official Stamp:



LATVIJAS JŪRAS ADMINISTRĀCIJAS  
KUĢOŠANAS DROŠĪBAS INSPEKCIJA  
MARITIME ADMINISTRATION OF LATVIA  
MARITIME SAFETY INSPECTORATE

**UZŅĒMUMA ATBILSTĪBAS APLIECĪBA**  
**CERTIFICATE OF COMPLIANCE OF COMPANY**

Pamatojoties uz Latvijas Republikas Ministru kabineta 2008.gada 29. janvāra noteikumu Nr. 49 „Noteikumi par kuģu drošību” 12. punktu, Latvijas Jūras administrācijas Kuģošanas drošības inspekcija apliecina, ka

Issued by Maritime Safety Inspectorate of the Maritime Administration of Latvia under provisions of Article 12 of Regulation No.49 „Regulations on Ships Safety” issued on 29 January 2008 by Cabinet of Ministers of the Republic of Latvia. This is to certify that

**SIA „HARBOUR RIGA”**

(uzņēmuma pilns nosaukums, adrese un reģistrācijas Nr. full name of Company, address and No. of registry)

Gāles iela 2, Rīga, LV-1015, reģ. nr. 40103422989

ir Latvijas Jūras administrācijas Kuģošanas drošības inspekcijas atzīts uzņēmums, kas veic šīs apliecības pielikumā norādītos darbus saskaņā ar spēkā esošajiem normatīvajiem aktiem.\*

is recognized Company by Maritime Safety Inspectorate of the Maritime Administration of Latvia for executing works as stated in Attachment to this Certificate in compliance with laws and regulations in force.\*

Uzņēmuma atbilstības apliecība ir derīga ar nosacījumu, ka tā tiek apstiprināta katru gadu.

Validity of Certificate of Compliance of Company is subject to annual surveys of Company

Nākošās ikgadējās apskates termiņš

2013. gada 15. septembris

Date of next annual survey



Vieta  
Place

Rīga

Datums  
Date

2012. gada 26. oktobris

A. Ošs

Pilnvarotās personas paraksts, uzvārds  
Signature and name of authorized official

Uzņēmuma atbilstības apliecības Nr.

12.0230.06

No. of Certificate of Compliance of Company

Derīga līdz

2017. gada 15. septembrim

Valid until

\* Veicot pielikumā norādītos darbus, uzņēmuma izdotajos dokumentos iekļauj norādi „Darbi veikti saskaņā ar Latvijas republikas Ministru kabineta 2008.gada 29. janvāra noteikumu Nr. 49 „Noteikumi par kuģu drošību” 12. punktu.,

Uzņēmuma atbilstības apliecības Nr.

12.0230.06

Derīga līdz

2017. gada 15. septembrim

\* Executing works stated in Attachment to this Certificate, documents issued by Company should be amended as follows: “Works executed in accordance with Article 12 of Regulation No.49 „Regulations on Ships Safety” issued on 29 January 2008 by Cabinet of Ministers of the Republic of Latvia”

No. of Certificate of Compliance of Company

Valid until

SIA „HARBOUR RIGA”

ATBILSTĪBAS APLIECĪBAS Nr.12.0230.06 PIELIKUMS  
ATTACHMENT TO CERTIFICATE OF COMPLIANCE OF COMPANY

Uzņēmumā veicamo darbu uzskaitījums List of works Company permitted to execute	Tehniskā dokumentācija Technical documentation
Kuģu korpusu konstrukciju, cauruļvadu, spiedtrauku un citu metāla konstrukciju defektoskopija un biezuma mērījumi izmantojot ultraskaņas metodes	Atzītu kuģu klasifikācijas sabiedrību noteikumi, instrukcijas, LR normatīvie akti

Z.v.  
Seal



Vieta  
Place

Rīga

Date

Datums 2012. gada 26. oktobris

Nr.  
No.

12.0230.06

A. Ošs

pilnvarotās personas paraksts, uzvārds  
Signature and name of authorized official

**RUSSIAN FEDERATION**  
System of Certification of Personal on Nondestructive Testing (EN473)

The «PROMETEY» centre ИК - 02 of attestation  
Certificates № РОСС RU. 0001. 0311300 0-02

Russian maritime register of shipping  
№ 09. 00381. 010

**CERTIFICATE OF QUALIFICATION**  
№ 02 / 6891 - 2010

First name **ANDREJS**  
Surname **ELKSNIS**  
Year of birth **1981**

Head of the centre of attestation  
Deputy director **G.I.Nikolayev**  
Signature



Owner of certificate  
Signature

**CERTIFICATE OF QUALIFICATION**  
№ 02 / 6891 - 2010 CERTIFIES  
a level of qualification  
in the manufacturing sector inspection procedure  
Expiry date:

Level	UTM		mth		year		mth		year	
	mth	year	mth	year	mth	year	mth	year	mth	year
1										
Sector										
2	11	2013								
Sector	7									
3										
Sector										

Manufacturing sector: 1 - machine building and metal production;  
2 - aviation; 3 - power generation; 4 - electronics and instrument making;  
5 - pipe-line transport; 6 - railway transport; 7 - shipbuilding, ship repair.  
Address of the «Prometej» CA, 191167 St. Petersburg, 30th Simonskaya St.  
Telephone: (812) 274-62-09 Protocol № А16113а dated 10.11.2010 yr.  
Fax: (812)274-16-29

**РОССИЙСКАЯ ФЕДЕРАЦИЯ**  
Система сертификации персонала в области  
неразрушающего контроля в соответствии с процедурой EN 473  
Уполномоченный орган ИК - 02 АИ «ПРОМЕТЕЙ»

Свидетельство Российского Морского Регистра  
судоходства № 09.00381.010 действительно до 01.04.2014г

**КВАЛИФИКАЦИОННОЕ УДОСТОВЕРЕНИЕ**  
(CERTIFICATE) № 02 / 6891 - 2010

Фамилия **ЭЛКСНИС**  
Имя **АНДРЕЙ**  
Отчество **ЕВИЕНЬЕВИЧ**  
Год рождения **1981**

Руководитель аттестационного центра  
Зам генерального директора **Г.И.Николаев**  
Подпись

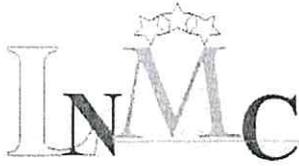


Владелец сертификата  
Подпись

**КВАЛИФИКАЦИОННОЕ УДОСТОВЕРЕНИЕ**  
(CERTIFICATE) № 02 / 6891 - 2010 УДОСТОВЕРЯЕТ  
уровень квалификации  
по методу контроля в производственном секторе  
Срок действия до

Вид контроля	УТ		РК		ПВК		ПВТ	
	мес	год	мес	год	мес	год	мес	год
1								
Sector								
2	11	2013						
Sector	7	(продлено)						
3								
Sector								

Производственный сектор: 1 - машиностроение и металлообработка;  
2 - авиация; 3 - энергетика; 4 - электроника и приборостроение;  
5 - трубопроводный транспорт; 6 - железнодорожный транспорт;  
7 - судостроение, судоремонт.  
Адрес АИ 191167 С-Петербург, Симонская ул. 30  
т. (812) 274-62-09 Протокол № А15896С от 10.11.2010г.  
Факс: (812)274-16-29.



SABIEDRĪBA AR IEROBEŽOTU ATBILDĪBU  
"LATVIJAS NACIONĀLAIS METROLOĢIJAS CENTRS"

Reģ. Nr. 40003435328, K. Valdemāra iela 157, Rīga, LV-1013, tālr.: 67378165  
Fakss: 67362805, e-pasts: info@lnmc.lv, http://www.lnmc.lv

## KALIBRĒŠANAS SERTIFIKĀTS Nr.G0605K13

CALIBRATION CERTIFICATE

Kalibrēšanas uzlīmes numurs 280055

Label of calibration



GEOMETRISKO UN KUSTĪBAS PARAMETRU MĒRĪJUMU LABORATORIJA

Laboratory of Geometrical and Motion Parameters Measurement

Mērlīdzekļa nosaukums Biezummērītājs, ultraskaņas  
Calibration item  
Tips DM4 Nr. 16855-\*015PD9\* Mērdiapazons (1,2 – 200,0) mm  
Type Serial No. Measuring range  
Ražotājs "Krautkramer"  
Manufacturer  
Pasūtītājs SIA "HARBOUR RIGA"  
Customer  
Gāles iela 2, Rīga

Kalibrēšanas metode un nosacījumi LNMC G 167:2010  
Calibration method and environmental conditions  
temperatūra (20±2) °C; gaisa relatīvais mitrums līdz 80%

Kalibrēšanas datums 201 3. gada "13." marts

Date of calibration

Rezultāti

Results

Skatīt otrajā lapā

Izsekojamība LNMC darba etalons – biezuma mēru etalonkomplekts Nr. 27  
Traceability  
(tērauds 40X13), kura izsekojamība līdz SI mērvienībām nodrošināta  
stārptautiski atzītajā Baltkrievijas metroloģijas institūcijā BELGIM.



p.ī.

Laboratorijas vadītājs  
Head of Laboratory

D.Burmistre  
(paraksts un tā atšifrējums L67362086)  
(signature and name)  
O.Starodubceva

Izpildītājs  
Operator

O.Starodubceva  
(paraksts un tā atšifrējums)  
(signature and name)

Izdošanas datums 201 3. gada "14." marts

Date of issue

Lapa 1(2)

Page



MĒRĪJUMU REZULTĀTI:  
Measurement results

Kalibrēšanā izmantots: *DA 451 pārveidotājs Nr. 59167-1439; 5MHz; Krautkramer*  
In calibration used

Mērīšanas režīms : *„CAL” 2 Pt: 5,01 mm un 75,23 mm; C=6074 m/s*

Etalona biezuma mēra nominālizmērs, mm	Ultraskaņas ātrums, m/s	Faktiskais vidējais izmērs, mm	Kļūda, ņemot vērā izplatīšanās ātrumu, mm	Nenoteiktība, mm	Pārklāšanās koeficients
2,01	6077	2,04	0,02	0,017	2,43
3,02	6078	3,03	0,02	0,025	2,65
5,01	6076	5,03	0,02	0,012	2,00
10,02	6073	10,06	0,05	0,016	2,00
20,04	6070	20,10	0,07	0,014	2,00
50,12	6064	50,18	0,14	0,030	2,00
75,23	6061	75,20	0,13	0,041	2,00
100,32	6060	100,30	0,20	0,054	2,00

*Mērījumu nenoteiktība U aprēķināta pie varbūtības 95,45%.*

*Nenoteiktība aprēķināta saskaņā ar LATAK EA – 4/02 rekomendācijām.*  
Uncertainty has been calculated according to LATAK EA – 4/02 recommendation.

Izpildītājs  *O. Starodubceva*  
Operator (paraksts un vārdatšifrējums)  
(signature and name)





Report on thickness measurements of all shell, deck plating, structural members

Ship's name VENTA IMO No 8847571

Report № HR-35-13

Structural member	Structure :Main deck											Average values			Notes								
	Side	No of member, stroke	Initial frame	End frame	Original thickness So, mm	Allowable residual thickness, mm	Max. allow. deminution %	Remaining thickness gauged Si, mm											Residual thickness S1, mm	Deminution		relative %	
								1	2	3	4	5	6	7		8	9	10		11	12		13
Plate	PS	A	A	44	57	6.0	4.2	30.0	5.5	5.1	5.3								5.3	0.7	11.7		
Plate	StB	A	A	44	57	6.0	4.2	30.0	5.4	4.8	5.3	5.4							5.2	0.8	12.9		
Plate	PS	A	A2	23	29	6.0	4.2	30.0	3.9	4.1	5.4	5.1							4.6	1.4	22.9	Renew partly	
Plate	StB	A	A2	23	29	6.0	4.2	30.0	4.0	3.7	4.1	5.3	5.2	5.4					4.6	1.4	23.1	Renew partly	
Plate	PS	A	A3	17	23	6.0	4.2	30.0	3.9	4.0	5.1	4.3	3.7						4.2	1.8	30.0	Renew	
Plate	StB	A	A3	17	23	6.0	4.2	30.0	3.7	4.6	4.2	4.4	3.9	4.5	4.1	4.6	3.8	3.5	4.2	1.8	30.7	Renew	
Plate	PS	A	A4	6	17	6.0	4.2	30.0	4.5	5.3	5.5								5.1	0.9	15.0		
Plate	StB	A	A4	6	17	6.0	4.2	30.0	4.8	3.9	5.1	4.5	4.9	5.0					4.7	1.3	21.7		
Plate	PS	A	A5	3	6	6.0	4.2	30.0	5.4	5.3	5.5								5.4	0.6	10.0		
Plate	StB	A	A5	3	6	6.0	4.2	30.0	5.8	5.7	5.9								5.8	0.2	3.3		
Plate	PS	A	A6	-1	3	6.0	4.2	30.0	5.6	5.4	5.2	5.8							5.5	0.5	8.3		
Plate	StB	A	A6	-1	3	6.0	4.2	30.0	5.4	5.7	5.3	5.5							5.5	0.5	8.7		
Plate	PS	B	B	44	56	6.0	4.2	30.0	5.4	5.6	5.5	5.8	5.5	4.0	5.7	5.4			5.4	0.6	10.6		
Plate	StB	B	B	44	56	6.0	4.2	30.0	5.6	4.8	5.5	4.7	5.2	5.7	4.3	3.8	4.1	4.1	3.5	3.9	5.3	21.4	Renew partly
Plate	PS	B	B	23	29	6.0	4.2	30.0	4.4	4.2	3.5	3.3	5.5	5.4	5.2	4.8			4.5	1.5	24.4		
Plate	StB	B	B	23	29	6.0	4.2	30.0	3.8	3.5	3.6	4.5	4.1	5.2	4.8	5.0	4.9	5.3		4.5	1.5	25.5	
Plate	PS	B	B	17	23	6.0	4.2	30.0	4.1	5.3	3.3	4.2	4.0	4.5	3.8	3.6	3.3	4.2	4.0	4.0	2.0	32.9	Renew
Plate	StB	B	B	17	23	6.0	4.2	30.0	5.0	4.4	4.2	3.6	3.8	5.2	4.1	4.9	4.1	3.9	3.2	4.7	4.3	29.6	Renew
Plate	PS	B	B	6	17	6.0	4.2	30.0	5.2	4.6	4.9	5.1	4.4	4.8	5.0	5.8	5.3	5.2	5.1	0.9	15.0		
Plate	StB	B	B	6	17	6.0	4.2	30.0	4.9	4.7	5.2	5.5	4.9	5.3	4.4	4.1	3.8	3.8	1.1	5.3	5.0	24.3	Renew partly
Plate	PS	C	C	44	54	6.0	4.2	30.0	5.3	4.9	5.5	5.7	5.6	5.3					5.4	0.6	10.3		
Plate	StB	C	C	44	54	6.0	4.2	30.0	5.3	5.2	5.6	5.2	4.2	3.8	4.6	4.1	3.5	4.2	4.4	3.7	3.6	26.5	Renew partly

Operator's signature :

Legend: Below class min  
Substantial corr



Report on thickness measurements of all shell, deck plating, structural members

Ship's name VENTA

IMO No 8847571

Report No HR-35-13

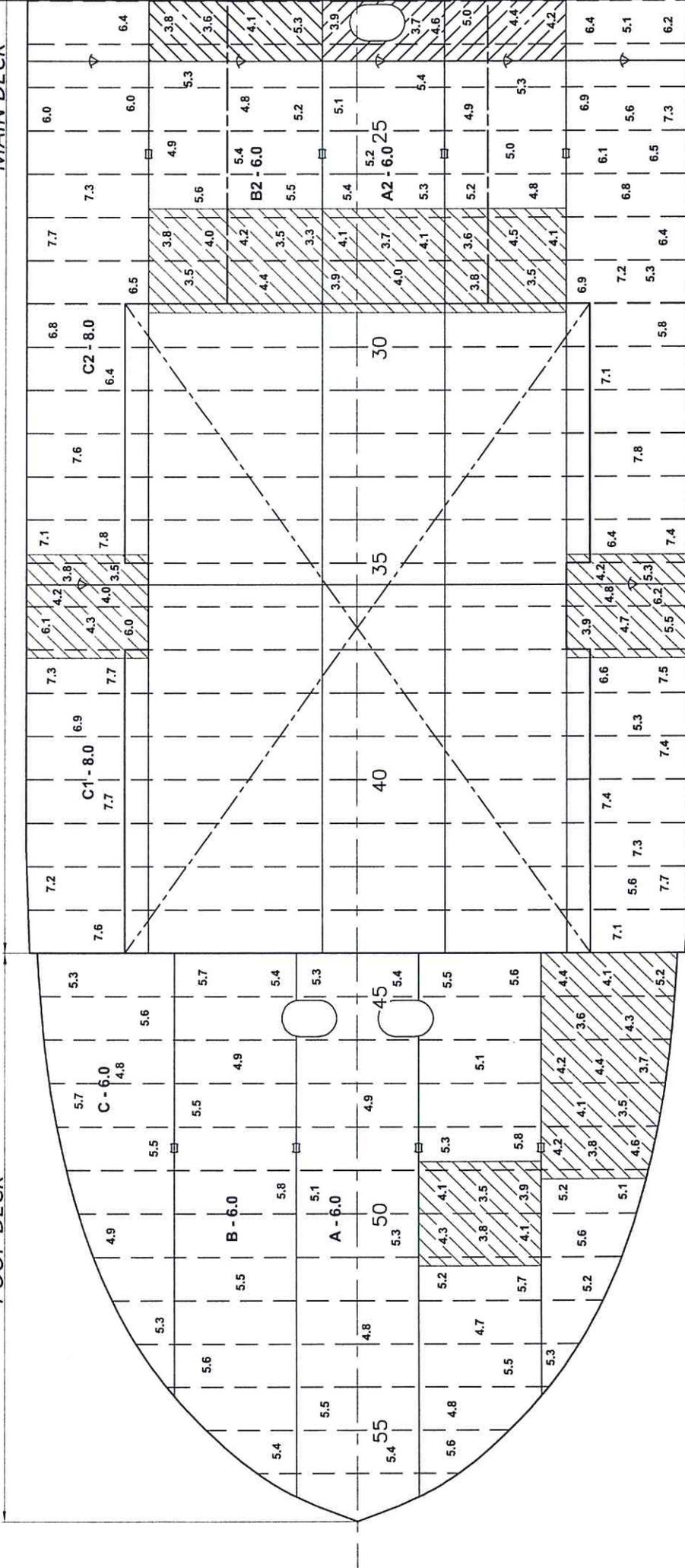
Structural member	Structure :Main deck										Average values			Notes											
	Side	No of member, strake	No item	Initial frame	End frame	Original thickness So, mm	Allowable residual thickness, mm	Max. allow.demintion %	Remaining thickness gauged Si, mm																
									Residual thickness S1, mm	Deminution absolute	Deminution relative														
2	3	4	5	6	7	8	9	10	11										12	13	14	15			
Plate	PS	C	C1	35	44	8.0	5.6	30.0	7.6	7.2	7.7	6.9	7.3	7.7	6.1	4.3	6.0	4.2	4.0	6.3	1.7	21.6	14	Renew partly	
Plate	StB	C	C1	35	44	8.0	5.6	30.0	7.1	5.6	7.7	7.3	7.4	7.4	5.3	6.6	7.5	5.5	4.7	6.2	1.8	22.3	15	Renew partly	
Plate	PS	C	C2	23	35	8.0	7.2	30.0	3.8	3.5	7.1	7.8	7.6	6.4	6.8	6.5	7.7	7.3	6.0	6.0	1.6	20.3	15	Renew partly	
Plate	StB	C	C2	23	35	8.0	5.6	30.0	4.2	5.3	6.4	7.4	7.8	7.1	5.8	6.9	7.2	5.3	6.8	6.1	6.5	6.9	19.9	15	Renew partly
Plate	PS	C	C3	17	23	8.0	5.6	30.0	6.4	6.3	6.8	7.1	7.6							6.8	1.2	14.5			
Plate	StB	C	C3	17	23	8.0	5.6	30.0	6.4	5.1	6.2	6.0	5.7	6.6	5.3	6.1	6.0	6.3	6.4	5.8	5.9	6.1	25.1		
Plate	PS	C	C4	6	17	8.0	5.6	30.0	7.3	6.9	6.7	6.9	7.2	6.6	7.0	6.8				6.9	1.1	13.4			
Plate	StB	C	C4	6	17	8.0	5.6	30.0	6.8	7.3	6.5	6.9	7.1	6.6	6.4	7.0				6.8	1.2	14.7			

Operator's signature :

Legend: Below class min  
Substantial corr

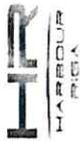
POOP DECK

MAIN DECK



	Operator	MAIN DECK / POOP DECK		Vessel	Sketch
	A.Elksnis			VENTA IMO 8847571	1





Report on thickness measurements of all shell, deck plating, structural members

Ship's name: VENTA

IMO No: 8847571

Report №: HR-35-13

1	Structure : Side shell plating											Average values				Notes									
	Structural member	Side	No of member, strake	No item	Initial frame	End frame	Original thickness So, mm	Allowable residual thickness, mm	Max. allow. deminution %	Remaining thickness gauged Si, MM															
										Residual thickness Si, MM	Deminution		Notes												
											absolute	relative													
MM	MM	%	12	13	14	15																			
2	Plate	PS	Fk	4	5	6	7	8	9	10	11	12	13	14	15										
		PS	Fk1	35	48	10.0	7.0	30.0	9.3	9.1	9.2	5.2	8.8	7.1	4.7	8.9	5.1	4.7	9.0	9.3	9.5	7.7	2.3	23.2	Renew partly
	Plate	StB	Fk	48	10.0	7.0	30.0	9.4	9.3	9.4	4.8	5.2	5.1	4.7	4.8	4.7	5.1	4.7	5.1	9.4	9.6	6.7	3.3	32.6	Renew partly
	Plate	PS	Fk	24	35	10.0	7.0	30.0	9.3	9.4	7.4	8.6	9.2	8.8	9.3							8.9	1.1	11.4	
	Plate	StB	Fk	24	35	10.0	7.0	30.0	9.3	9.5	7.8	9.1	9.4	8.6	9.2							9.0	1.0	10.1	
	Plate	PS	Fk	17	24	10.0	7.0	30.0	9.4	9.3	9.6	7.6	9.6	9.9								9.2	0.8	7.7	
	Plate	StB	Fk	17	24	10.0	7.0	30.0	9.5	9.3	9.4	7.7	9.5	9.6								9.2	0.8	8.3	
	Plate	PS	Fk	17	17	10.0	7.0	30.0	9.7	9.4	9.1	9.0	8.4	8.0								8.9	1.1	10.7	
	Plate	StB	Fk	7	17	10.0	7.0	30.0	9.8	9.0	8.0	8.3	8.2	7.3	7.8	7.1						8.2	1.8	18.1	
	Plate	PS	Fk	3	7	10.0	7.0	30.0	6.9	6.3	6.8	7.8	8.5	8.1								7.4	2.6	26.0	Renew partly
	Plate	PS	Fk	3	7	10.0	7.0	30.0	6.6	7.0	6.3	8.3	8.5	8.0								7.5	2.6	25.5	Renew partly
	Plate	StB	St	55	58	8.0	5.6	30.0	7.1	6.5	6.8	6.5	7.5	7.6								7.0	1.0	12.5	
	Plate	StB	St	55	58	8.0	5.6	30.0	6.9	6.6	6.8	7.2	7.0									6.9	1.1	13.8	
	Plate	PS	St	1	3	10.0	7.0	30.0	8.7	8.9	9.0											8.9	1.1	11.3	
	Plate	PS	St	1	3	10.0	7.0	30.0	8.8	8.5	7.8											8.4	1.6	16.3	
	Plate	StB	St	0	2	10.0	7.0	30.0	8.1	8.3	9.2	9.3										8.7	1.3	12.8	
	Plate	StB	St	0	2	10.0	7.0	30.0	7.8	8.1	9.1	9.2										8.6	1.5	14.5	
	Plate	PS	St	0	1	10.0	7.0	30.0	10.0	9.8	9.6											9.8	0.2	2.0	
	Plate	PS	St	0	1	10.0	7.0	30.0	9.7	9.8	9.9											9.8	0.2	2.0	
	Plate	StB	St	46	51	8.0	5.6	30.0	7.4	7.2	7.1	6.9	6.5	6.2								6.9	1.1	14.0	
	Plate	StB	St	46	51	8.0	5.6	30.0	7.8	7.7	6.4	7.4	7.2	7.6								7.4	0.6	8.1	

Operator's signature:

Legend: Below class min  
Substantial corr



Report on thickness measurements of all shell, deck plating, structural members

Ship's name VENTA

IMO No 8847571

Report № HR-35-13

1	Structure : Side shell plating										Average values				Notes											
	Structural member	Side	No of member, strake	No item	Initial frame	End frame	Original thickness So, mm	Allowable residual thickness [S], mm	Max. allow. deminution %	Remaining thickness gauged Si, MM																
																				Residual thickness S1, mm	Deminution					
																					absolute	relative	%			
2	3	4	5	6	7	8	9	10	11										12	13	14	15				
Plate	PS	A	A2	35	46	8.0	5.6	30.0	6.8	7.1	6.4	6.7	7.4	7.5	5.9	6.0	6.3	6.4	7.2	7.0	6.7	1.3	15.9			
Plate	StB	A	A2	35	46	8.0	5.6	30.0	7.3	6.9	7.2	7.1	5.8	6.2	7.3	6.8	6.4	7.5	7.3	7.4	7.0	7.3	1.0	12.9		
Plate	PS	A	A3	24	35	8.0	5.6	30.0	7.4	7.2	5.9	7.3	7.7	6.9	7.5	4.3	4.8	3.6	5.1	7.5	7.7	6.4	1.6	19.5	Renew partly	
Plate	StB	A	A3	24	35	8.0	5.6	30.0	5.3	6.7	7.5	5.2	7.8	7.3	7.3	6.9	7.4	7.5	7.6	7.2	7.5	7.0	1.0	12.9	Renew partly	
Plate	PS	A	A4	17	24	8.0	5.6	30.0	7.4	7.1	7.5	7.3	7.2	6.8	6.4							7.1	0.9	11.3		
Plate	StB	A	A4	17	24	8.0	5.6	30.0	7.6	7.4	7.8	8.0	7.8	7.9								7.8	0.2	3.0		
Plate	PS	A	A5	7	17	8.0	5.6	30.0	7.5	7.3	7.4	7.3	7.2	6.8	6.5	6.0	5.1	3.7	4.2			6.0	2.0	24.8	Renew partly	
Plate	StB	A	A5	8	17	8.0	5.6	30.0	6.8	7.1	7.5	7.4	7.4	7.3	6.4	7.0	7.1	6.3				7.0	1.0	12.1		
Plate	PS	A	A5.1	8	7	8.0	5.6	30.0	9.5	9.8	9.7	9.8										9.7	-1.7	-21.3		
Plate	PS	A	A6	3	7	8.0	5.6	30.0	4.7	4.9	4.3	6.2	5.1	4.8	6.7	6.6	6.8	6.5				5.7	2.3	29.3	Renew partly	
Plate	StB	A	A6	3	7	8.0	5.6	30.0	4.9	5.3	5.1	5.8	6.3	4.8	6.2	5.7	6.6	7.0				5.8	2.2	27.9	Renew partly	
Plate	PS	B	B1	46	52	8.0	5.6	30.0	6.9	7.2	7.3	7.3	7.2	5.6	7.3	6.9	6.0	7.7				6.9	1.1	13.3		
Plate	StB	B	B1	46	52	8.0	5.6	30.0	7.2	7.4	6.8	7.3	7.5	7.3								7.3	0.8	9.4		
Plate	PS	B	B2	40	46	8.0	5.6	30.0	7.0	7.0	6.8	6.9	7.0	6.7								6.9	1.1	13.8		
Plate	StB	B	B2	40	46	8.0	5.6	30.0	7.5	7.2	7.3	7.4	7.2									7.3	0.7	8.5		
Plate	PS	B	B3	35	40	8.0	5.6	30.0	7.1	7.2	6.9	5.8	7.3	7.3	7.2	7.4	7.1					7.0	1.0	12.1		
Plate	StB	B	B3	35	40	8.0	5.6	30.0	7.2	7.3	6.9	7.0	7.2	7.0	6.9	7.3						7.1	0.9	11.3		
Plate	PS	B	B4	24	35	8.0	5.6	30.0	7.2	3.9	3.8	7.4	4.4	5.2	5.1	7.5	7.3	7.2	7.4	7.2	6.1	5.0	6.1	2.0	24.4	Renew partly
Plate	StB	B	B4	24	35	8.0	5.6	30.0	4.3	4.0	3.9	3.8	5.1	7.5	7.2	6.9	7.4	7.3	7.5	7.4	5.7	7.3	6.1	1.9	23.8	Renew partly
Plate	PS	B	B5	17	24	8.0	5.6	30.0	7.0	7.3	7.9	7.1	6.7	6.9	7.2	6.8						7.1	0.9	11.9		
Plate	StB	B	B5	17	24	8.0	5.6	30.0	7.8	7.5	7.9	8.1	7.8	8.0	7.7							7.8	0.2	2.1		
Plate	PS	B	B6	7	17	8.0	5.6	30.0	7.4	7.4	7.2	7.3	7.2	4.8	5.1	4.9	4.9	4.7	3.8			5.9	2.1	26.5	Renew partly	
Plate	StB	B	B6	7	17	8.0	5.6	30.0	7.1	7.6	6.9	7.1	5.7	7.2	6.9	7.1	6.8	7.1				7.0	1.1	13.1		

Operator's signature :

Legend: Below class min  
Substantial corr



Report on thickness measurements of all shell, deck plating, structural members

Ship's name VENTA

IMO No 8847571

Report № HR-35-13

Structural member	Structure : Side shell plating											Average values				Notes											
	Side	No of member, strake	No item	Initial frame	End frame	Original thickness So, MM	Allowable residual (t-s [S1], MM	Max. allow. denitnition %	Remaining thickness gauged Si, MM																		
																				Residual thickness S1, MM	Determination						
																					absolute	relative	%				
2	3	4	5	6	7	8	9	10	11											12	13	14	15				
Plate	PS	B	B7	2	7	8.0	5.6	30.0	4.9	5.1	5.3	4.6	6.8	7.2	6.9	6.6	6.3	6.5	7.2	6.1	7.0	1.0	23.4	12.1	Renew partly		
Plate	SIB	B	B7	2	7	8.0	5.6	30.0	7.5	7.3	7.4	7.3	7.2	7.3	6.9	6.3	6.1				7.6	0.4	5.0				
Plate	PS	C	C1	35	40	8.0	5.6	30.0	7.7	7.4	7.8	7.5										7.2	0.9	10.6			
Plate	SIB	C	C1	35	40	8.0	5.6	30.0	7.5	7.4	7.3	7.2	6.7	6.8								7.5	0.5	5.8			
Plate	PS	C	C2	24	35	8.0	5.6	30.0	7.5	7.6	7.8	7.4	7.5	7.4								7.7	0.3	3.5			
Plate	SIB	C	C2	24	35	8.0	5.6	30.0	7.8	7.8	7.6	7.7	7.8	7.6								7.4	0.6	7.2			
Plate	PS	C	C3	17	24	8.0	5.6	30.0	7.5	7.1	7.7	7.4										7.7	0.4	4.4			
Plate	SIB	C	C3	17	24	8.0	5.6	30.0	7.8	7.9	7.5	7.4										7.0	1.1	13.1	Renew partly		
Plate	PS	C	C4	7	17	8.0	5.6	30.0	7.5	7.2	7.3	6.9	7.5	7.4	7.3	5.8	6.4	6.2				7.5	0.5	6.4			
Plate	SIB	C	C4	7	17	8.0	5.6	30.0	7.5	7.7	6.9	7.1	7.3	7.2	7.6	7.8	7.8	8.0				7.7	0.4	4.4			
Plate	PS	D	D1	50	56	8.0	5.6	30.0	7.7	7.8	7.5	7.6										7.7	0.4	4.4			
Plate	SIB	D	D1	50	56	8.0	5.6	30.0	7.6	7.7	7.5	7.8										7.7	0.4	4.4			
Plate	PS	D	D1.1	50	56	6.0	4.2	30.0	5.3	5.5	5.2	4.9	4.8									5.1	0.9	14.3			
Plate	SIB	D	D1.1	50	56	6.0	4.2	30.0	4.9	5.2	5.3	4.7	5.5	5.1								5.1	0.9	14.7			
Plate	PS	D	D2	46	50	6.0	4.2	30.0	4.4	4.2	5.2	5.3	3.8	4.0	5.0	4.1	3.9	5.0	5.3	5.1		4.6	1.4	23.2	Renew partly		
Plate	SIB	D	D2	46	50	6.0	4.2	30.0	4.1	4.7	4.8	5.2	5.0	4.6	5.4	4.4	5.3	4.7	4.9	5.2		4.9	1.1	19.0	Renew		
Plate	PS	D	D3	35	46	6.0	4.2	30.0	5.2	5.1	5.3	4.8	5.3	5.5	5.3	5.5	5.3	4.9	5.0	5.4	5.1	5.3	5.2	0.8	13.1		
Plate	SIB	D	D3	35	46	6.0	4.2	30.0	5.1	4.4	5.3	5.4	5.0	5.3	4.9	4.2	4.6	3.8	4.1	4.6	5.1	5.3	4.8	1.2	20.1	Renew partly	
Plate	PS	D	D4	24	35	6.0	4.2	30.0	5.2	5.3	5.5	4.3	3.8	4.2	4.4	5.4	4.0	5.5	4.3	5.5	5.1	5.2	4.8	1.2	19.4	Renew partly	
Plate	SIB	D	D4	24	35	6.0	4.2	30.0	5.3	5.6	5.7	5.2	5.5	5.3	4.9	5.3	5.4	5.0	5.3	5.5	5.3	5.6	5.4	0.7	10.8	Renew partly	
Plate	PS	D	D5	17	24	6.0	4.2	30.0	5.4	5.7	3.9	4.0	3.4	5.1	5.4	4.0	4.1	5.3	5.6	4.4		4.7	1.3	21.8	Renew partly		
Plate	SIB	D	D5	17	24	6.0	4.2	30.0	5.2	5.1	5.6	5.5	4.8	5.3	5.2	5.1	5.4	5.3	5.6	4.4		5.3	0.8	12.5	Renew partly		

Operator's signature :

Legend: Below class min  
Substantial corr



Report on thickness measurements of all shell, deck plating, structural members

Ship's name VENTA IMO No 8847571

Report № HR-35-13

Structural member	Structure : Side shell plating										Average values				Notes											
	Side	No of member, strake	No item	Initial frame	End frame	Original thickness So, MM	Allowable residual th-s [S1], MM	Max. allow.demintion %	Remaining thickness gauged Si, MM																	
																			Residual thickness Si, MM	Demintion						
																				absolute	relative	%				
2	3	4	5	6	7	8	9	10	11										12	13	14	15				
Plate	S1B	D	D6	7	17	8.0	5.6	30.0	6.5	7.4	7.4	7.0	6.9	7.2	6.2	6.4	7.3	7.0	7.3	5.5	6.9	7.1	6.9	1.1	14.2	
Plate	S1B	D	D6	7	17	8.0	5.6	30.0	7.2	6.8	7.3	6.4	6.6	6.3	7.2	7.4	7.9	7.8					7.1	0.9	11.4	
Plate	S1B	D	D7	1	7	8.0	5.6	30.0	7.5	7.3	7.2	7.4	6.9	7.1	7.3	7.0							7.2	0.8	9.8	
Plate	S1B	D	D7	1	7	8.0	5.6	30.0	7.3	7.6	7.8	7.5	7.4	7.2	7.0								7.4	0.6	7.5	
Plate	S1B	E	E1	52	57	8.0	5.6	30.0	5.3	5.4	4.8	5.1	5.7	5.5	4.9	4.3	5.2	5.0					5.1	2.9	36.0	Renew
Plate	S1B	E	E1	52	57	8.0	5.6	30.0	5.3	5.5	4.9	5.0	4.8	6.8	5.0	4.7	6.5	4.0					5.3	2.8	34.4	Renew
Plate	S1B	E	E2	46	52	8.0	5.6	30.0	7.6	7.7	7.5	7.6	7.6									7.6	0.4	5.0		
Plate	S1B	E	E2	46	52	8.0	5.6	30.0	7.7	7.8	7.6	7.7	7.6									7.7	0.3	4.0		
Plate	S1B	E	E3	35	46	8.0	5.6	30.0	4.3	5.4	5.3	5.7	3.5	7.1	7.4	3.1	2.9	6.6	3.0	6.3	4.5	4.9	5.0	3.0	37.5	Renew partly
Plate	S1B	E	E3	35	46	8.0	5.6	30.0	6.2	5.8	6.3	6.4	6.0	7.1	3.2	2.5	6.8	2.7	6.2	2.9	6.5	3.1	5.1	2.9	36.0	Renew partly
Plate	S1B	E	E4	24	35	8.0	5.6	30.0	3.6	3.2	5.1	5.5	6.0	5.3	4.3	6.2	4.8	7.2	4.5	7.0	6.9	3.8	5.2	2.8	34.5	Renew partly
Plate	S1B	E	E4	24	35	8.0	5.6	30.0	6.8	3.3	6.9	2.8	7.3	3.0	7.2	2.9	6.5	5.3	2.7	5.9	7.4	6.5	5.3	2.7	33.5	Renew partly
Plate	S1B	E	E5	17	24	8.0	5.6	30.0	6.9	4.2	4.0	7.0	5.3	6.1	6.8	5.0	6.2	5.1	7.1	4.7	5.0	4.4	5.6	2.4	30.5	Renew partly
Plate	S1B	E	E5	17	24	8.0	5.6	30.0	4.9	5.2	6.9	7.5	7.2	4.7	7.0	5.0	7.8	5.5	4.3	5.4	7.1	7.7	6.2	1.8	23.0	Renew partly
Plate	S1B	E	E6	7	17	8.0	5.6	30.0	4.9	5.3	4.5	6.0	4.8	5.1	4.6	5.3	7.1	5.2	6.0	4.8	5.5	4.5	5.3	2.7	34.3	Renew
Plate	S1B	E	E6	7	17	8.0	5.6	30.0	4.9	5.0	6.0	5.3	4.7	5.2	4.8	7.0	7.3	6.8	7.2	7.4	7.3	6.8	6.1	1.9	23.5	Renew partly
Plate	S1B	E	E7	1	7	8.0	5.6	30.0	7.6	7.5	4.9	5.3	7.8	7.2	6.8	7.3	6.9	7.1	7.4				6.9	1.1	13.9	
Plate	S1B	E	E7	1	7	8.0	5.6	30.0	6.9	7.3	7.2	7.3	7.4	7.0									7.2	0.8	10.2	

Operator's signature :

Legend: Below class min  
Substantial corr



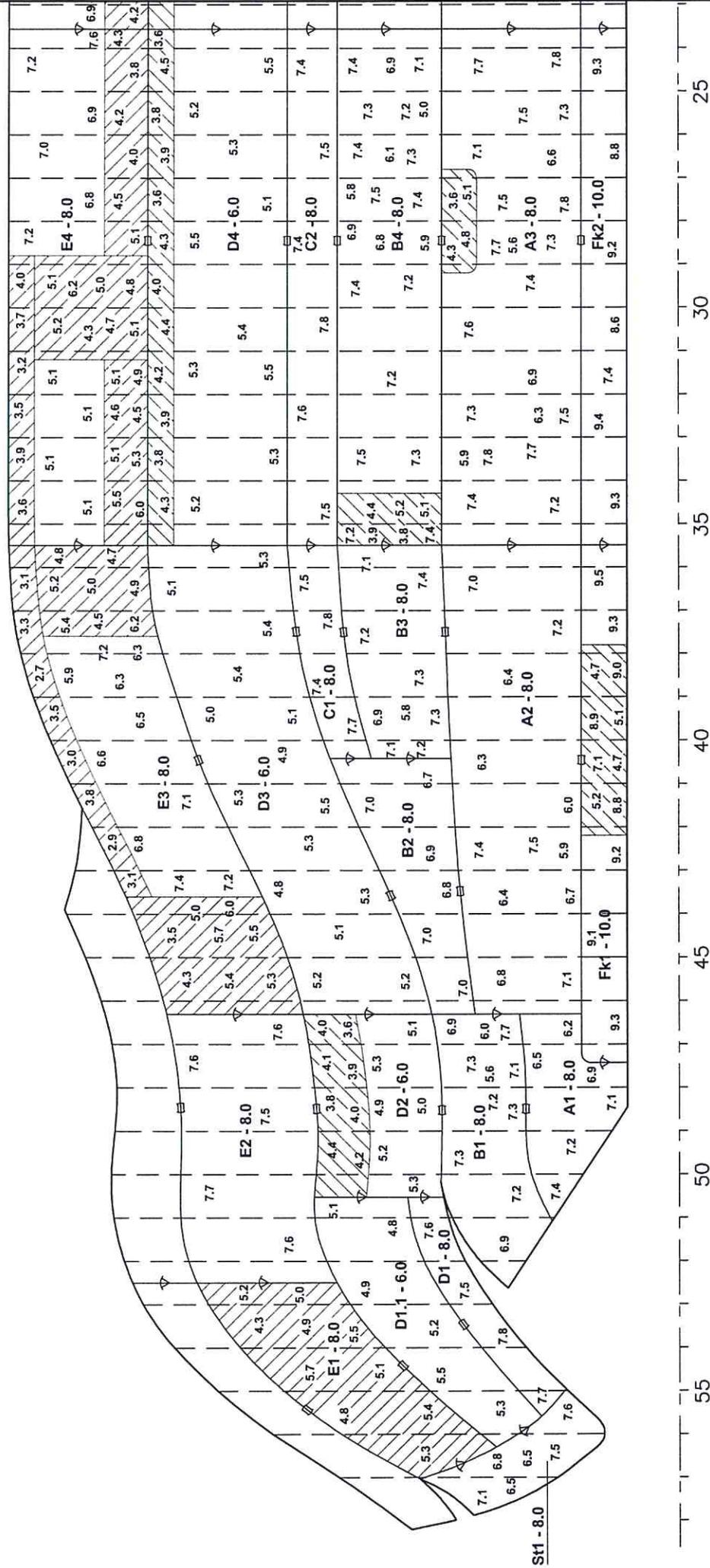






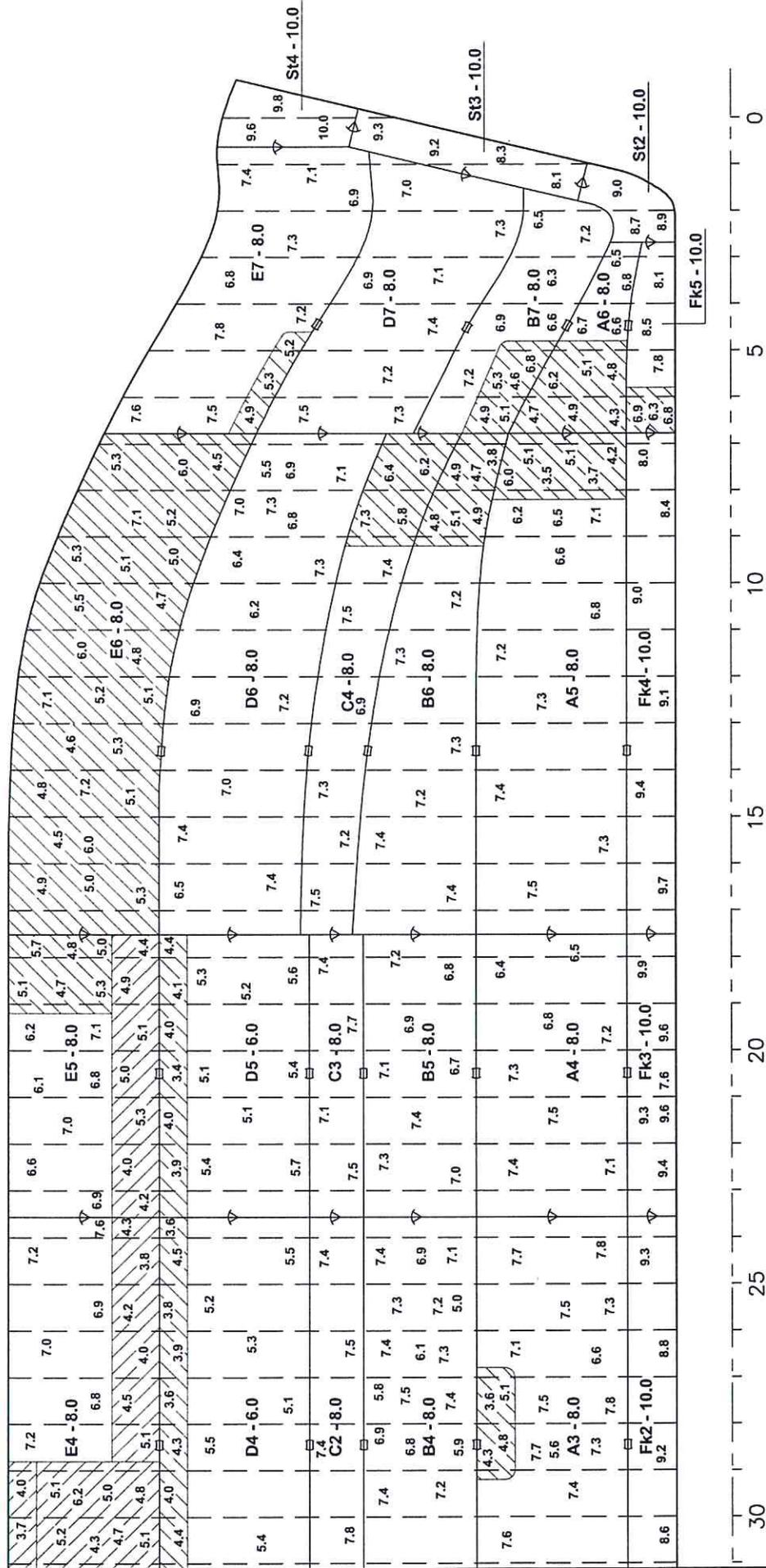






Operator A. Elksnis	Vessel		Sketch
	VENTA		
	IMO		3
	8847571		

SHELL PLATING, PS

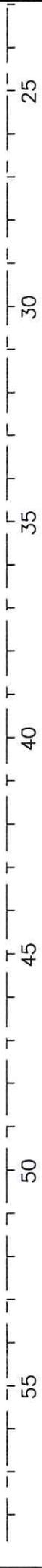


SHELL PLATING, PS

Operator  
A. Elksnis

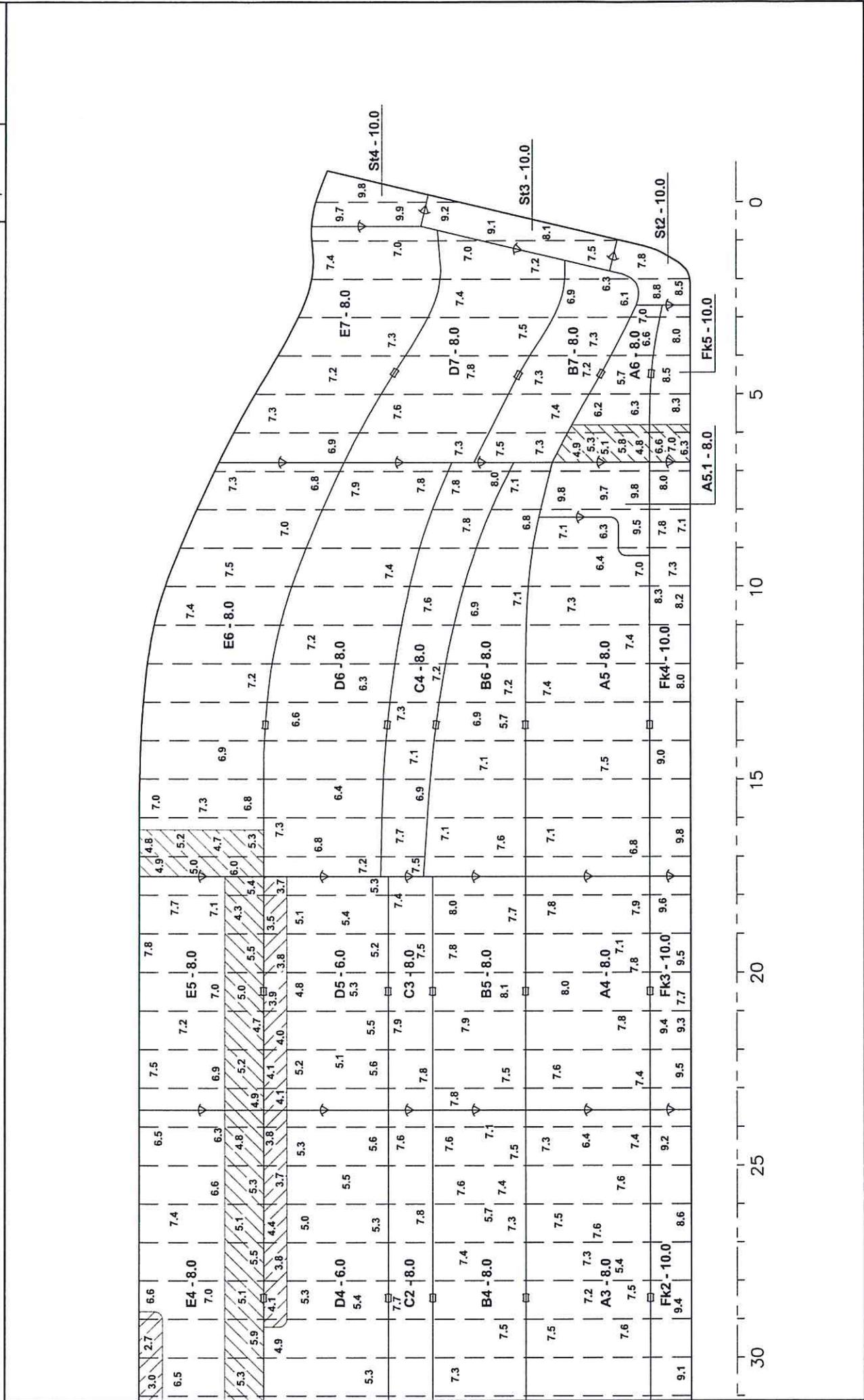
Vessel  
IMO 8847571

Sketch  
4

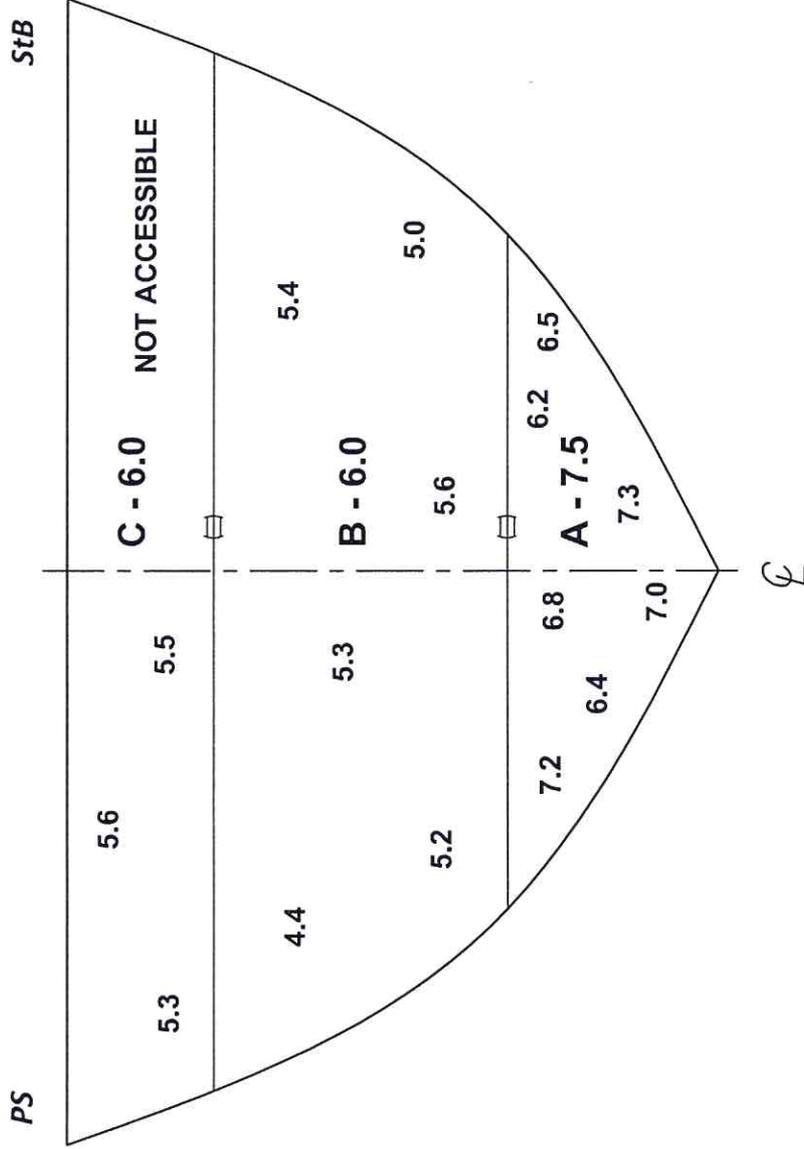


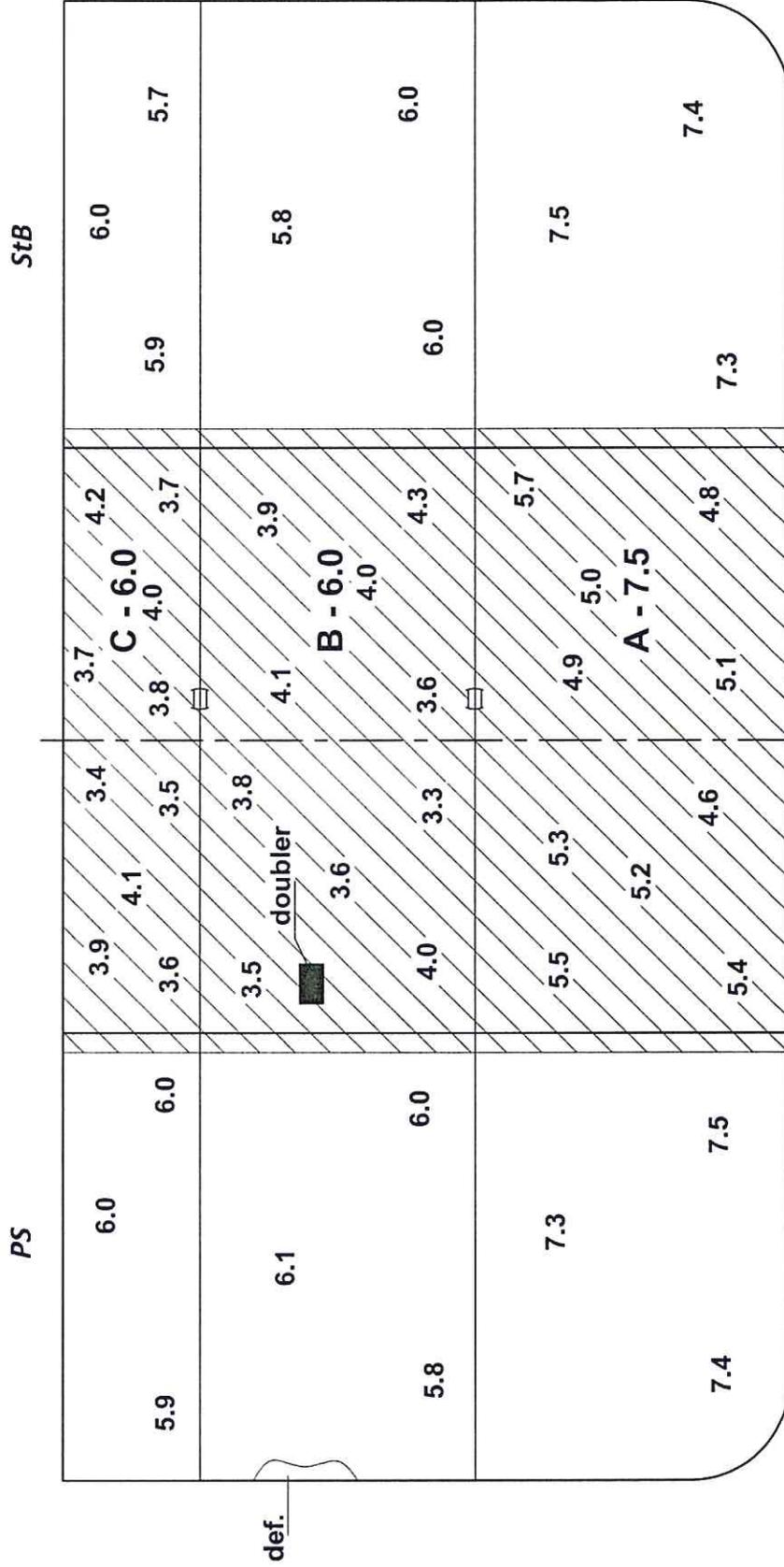
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	A-Elksnis	IMO	VENTA 8847571	5

SHELL PLATING, S&B



	Operator		Vessel		Sketch	
	A. Elksnis		VENTA		6	
			IMO		8847571	
<b>SHELL PLATING, StB</b>						





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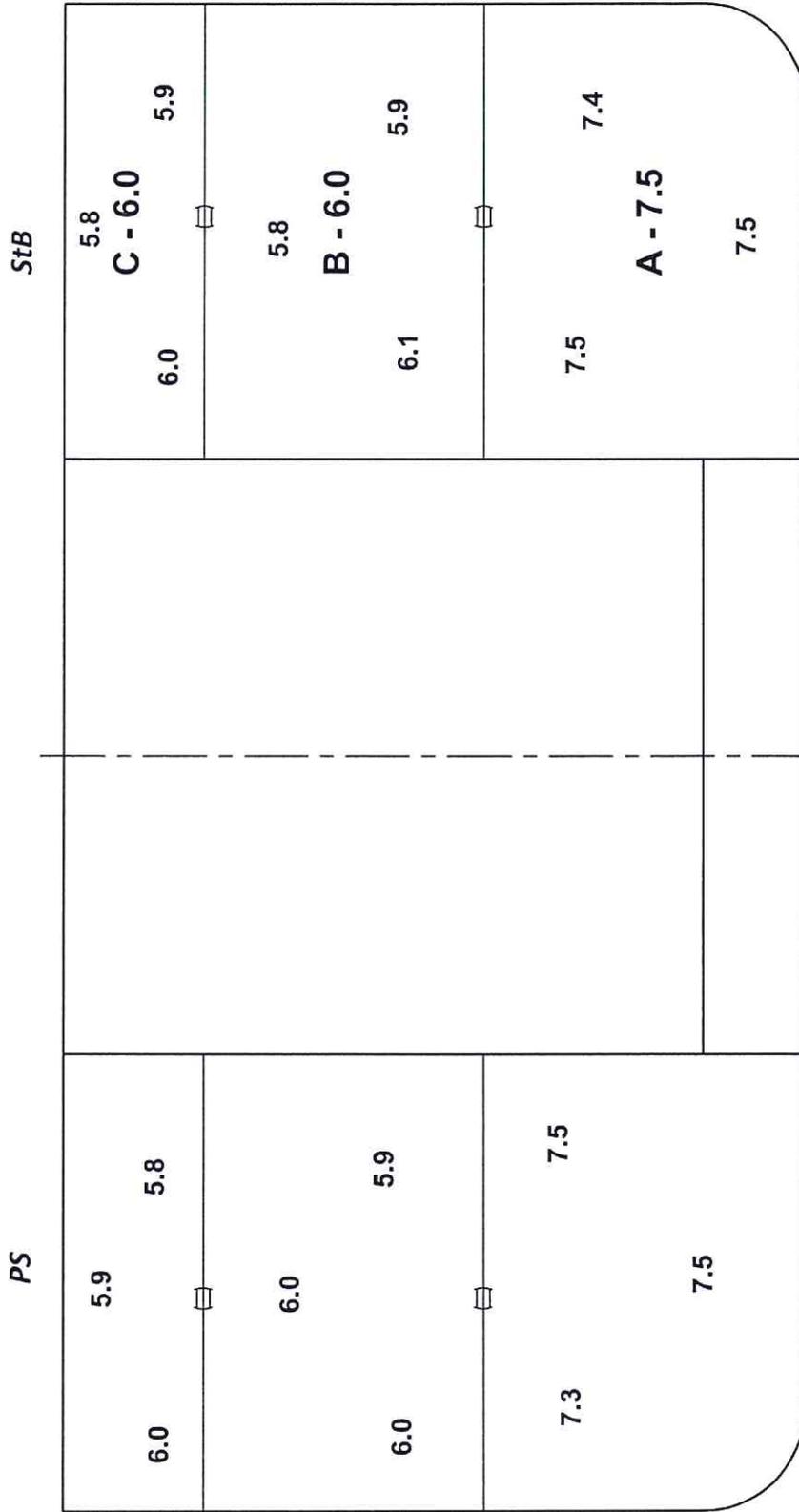
TRANSVERSE BHD, Fr.9

Operator  
A.Elksnis

Vessel  
IMO 8847571

Sketch  
8

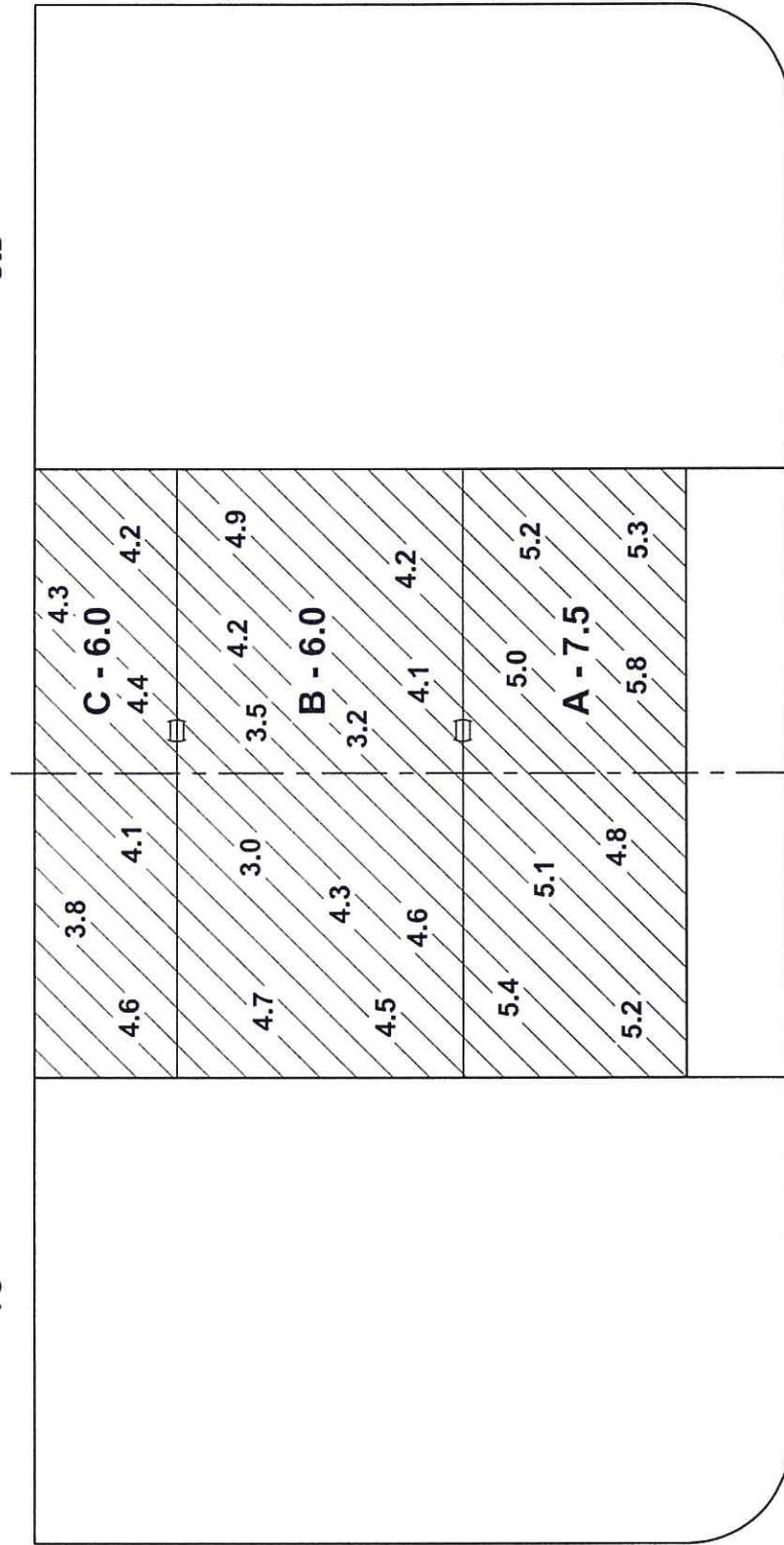




Operator A.Eiksnis	TRANSVERSE BHD, Fr.17		Vessel IMO	VENTA 8847571	Sketch 9

PS

StB



℄

Operator A.Eiksnis	TRANSVERSE BHD, Fr.22		Vessel VENTA	Sketch
			IMO 8847571	10

<i>PS</i>		<i>StB</i>	
6.0	6.1 6.2	5.7 5.8	C - 6.0 5.9      6.0 6.0
5.4	5.9 5.8	5.7 5.9	B - 6.0 5.8      6.0 5.9
7.3	7.4 7.2	7.4 7.1	A - 7.5 7.5      7.4 7.1

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<b>HR</b> <small>HANDBOUR INDIA</small>	Operator A.Elksnis	<b>TRANSVERSE BHD, Fr.29</b>		Vessel IMO	VENTA 8847571	Sketch 11

PS		StB	
3.0 3.3 4.1	5.9 6.1 5.8	5.8 6.0 6.0	3.7 3.2 4.1
5.8 6.0	5.8 5.9	5.9 5.8	6.0 6.0
9.2 9.0	9.0 9.1	9.2 9.1	9.4 9.3

ℓ

	Operator	Vessel	Sketch
	A.Elksnis	VENTA IMO 8847571	12

TRANSVERSE BHD, Fr.44